- a catalyst solution of boron trifluoride in an organic solvent or in a mixture of organic solvents,
- (ii) a solution of 2-thiofuroic acid (furyl-2-carbonylthiol) of the formula (III) in a solvent, and
  - (iii) \7-aminocephalosporanic acid of the formula (II), and
- (b) precipitating Furaca (3-[2-(furylcarbonyl) thiomethyl]-3-cephem-4-carboxylic acid) as a solid.

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- --17. The process of claim 16, wherein both the organic solvent and the mixture of organic solvents are selected from the group consisting of ethyl acetate, methyl acetate, and propyl acetate.--
- --18. The process of claim 16, wherein said components are allowed to react at a reaction temperature between 20°C and 50°C before step (b).--
  - --19. A process to prepare cephalosporin compound of the formula

comprising performing nucleophilic displacement of the acetoxy of 7-aminocephalosporanic acid by 2-thiofuroic acid of the formula

in presence of boron trifluoride in a solvent or a mixture of solvents.--

- --20. The process of claim 19 wherein both the said organic solvent and the said mixture of solvents is selected from the group consisting of ethyl acetate, methyl acetate, propyl acetate.--
- --21. The process of claim 19 wherein the said nucleophilic displacement is conducted out at a reaction temperature between 20°C and 50°C.--
- --22. A process to prepare a cephalosporin compound (Furaca: 3-[2-(furylcarbonyl) thiomethyl]-3-cephem-4-carboxylic acid) represented by formula (I),

*3*/1 5.h

(I)

comprising the steps of:

preparing a catalyst solution of boron trifluoride in an organic solvent or in a mixture of organic solvents,

mixing into said catalyst solution a solution of 2-thiofuroic acid (furyl-2-carbonylthiol) of the formula (III) in a solvent to form a reactant mixture, reacting 7-aminocephalosporanic acid of the formula (II) with the said reactant mixture, and

precipitating from the said reaction mixture Furaca (3-[2-(furylcarbonyl) thiomethyl]-3-cephem-4-carboxylic acid) as a solid.

